

# NIST Cloud Computing Forum and Workshop VIII

July 7, 8, 9, and 10, 2015

## Speaker Profiles



**Susie Adams**  
**Chief Technology**  
**Officer, Microsoft**  
**Federal**

Susie Adams serves as chief technology officer for Microsoft's federal government business where she oversees and implements the technical strategy for Microsoft's Defense Department, civilian and Intelligence Community businesses.

Adams joined Microsoft federal sales in 1999 and has held several leadership positions as the director of the Reston Microsoft Technology Center and most recently the CTO of the federal civilian business.

Prior to Microsoft, Adams spent more than 15 years in the government consulting arena working with DOD, IC, civilian and SLG customers.



**William (Curt)**  
**Barker**  
**Cybersecurity**  
**Standards and**  
**Technology**  
**Advisor,**  
**Information**  
**Technology**  
**Laboratory, NIST**

Mr. Barker is senior advisor for strategic plans and implementation support to the National Cybersecurity Center of Excellence (NCCoE), and for program planning and execution for other ITL cybersecurity initiatives. He previously served as Associate Director and Cybersecurity Advisor for ITL, directly responsible for planning, directing, and implementing the policies and programs of NIST's cybersecurity program. He was the first manager for multiple national-level initiatives, including the National Initiative For Cybersecurity Education, the National Strategy for Trusted Identities in Cyberspace, and the NCCoE. Mr. Barker also served as Acting Chief of NIST's Information Access Division, was the first head of Department of Commerce Office of Policy and Strategic Planning's Cybersecurity and Privacy Coordination Office, represented the DoC to White House and in interdepartmental and public/private sector cybersecurity forums, and was Chief of NIST's Computer Security Division (CSD). Prior to becoming CSD Chief, was Program Manager for NIST Personal Identity Verification activities and managed development of Federal Information Processing Standards and NIST recommendations and guidelines under various NIST identity management, cryptographic, and information systems security management programs. He has worked in the information security field since 1966. Before joining NIST, Mr.

Barker worked in National Security Agency information assurance organizations, and subsequently held private sector positions of Vice President and Director of Independent Research and Development at two information assurance companies: PE Systems and Trusted Information Systems.

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**Jason R. Baron**  
**Of Counsel,**  
**Information**  
**Governance and**  
**eDiscovery Group,**  
**Drinker Biddle &**  
**Reath, LLP**

Jason R. Baron serves as Of Counsel in the law firm of Drinker, Biddle & Reath, in their Information Governance and eDiscovery Group in Washington, D.C., and co-chairs the recently formed Information Governance Initiative, a consortium and think tank devoted to advancing information governance. He also serves as Chair-elect of the D.C. Bar Litigation Section E-discovery Committee, and as an adjunct faculty member of the College of Information Studies at the University of Maryland, where he teaches e-discovery. Previously, between 2000 and 2013 Mr. Baron served as Director of Litigation for the National Archives and Records Administration. He also formerly held the positions of trial attorney and senior counsel in the U.S. Department of Justice, where during the 1990s he acted as lead counsel in litigation involving the preservation of White House e-mail. He has served as Co-chair on the steering committee of The Sedona Conference® Working Group on electronic document retention and production, and as editor-in-chief on three Sedona commentaries. Mr. Baron was a founding co-coordinator of the NIST TREC Legal Track, a founding co-organizer of the “DESI” (Discovery of ESI) workshop series devoted to search issues, and has been a Visiting Scholar at the University of British Columbia. He also serves on a number of advisory boards, including for the Cardozo Data Law Initiative, and as a member of the Georgetown Advanced Institute on E-Discovery. Mr. Baron was recognized as an ediscovery “trailblazer” in The American Lawyer’s August 2013 issue on the “Top 50 Big Law Innovators of the Last 50 Years.” He was the 2011 recipient of the Emmett Leahy Award, recognizing his career contributions in the field of records and information management. Among his many awards while in public service, he was named the 2013 recipient of the Justice Tom C. Clark Outstanding Government Lawyer award, given by the Federal Bar Association. Over the past decade, Jason has given presentations on preservation and access issues involving electronic records in over 400 forums in the U.S. and around the world. His achievements as a government lawyer in the area of e-discovery are highlighted in the film, *The Decade of Discovery*, a documentary which premiered in 2014 and has been shown in numerous venues across the U.S. and in Europe. Most recently, in connection with former Secretary of State Hillary Clinton’s use of a private email account, Mr. Baron has been invited to appear on *NBC Nightly News*, *Good Morning America*, *MSNBC’s “The Last Word with*

*Lawrence O'Donnell*," *CNN*, *NPR's All Things Considered*, and *Huff Post Live*. He also has been quoted in *The New York Times*, *The Washington Post*, a cover story in *Time Magazine*, *CBS News*, *The Wall Street Journal*, *Washington Wire*, *Politico*, [Factcheck.org](http://Factcheck.org), and numerous other media outlets. Mr. Baron received his B.A *magna cum laude* with honors from Wesleyan University, and his J.D. from the Boston University School of Law.

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**Eric Bauer**  
**Reliability**  
**Engineering**  
**Manager, Alcatel-**  
**Lucent**

ERIC BAUER is reliability engineering manager in the IP Platforms Group of Alcatel-Lucent. He has worked on reliability of Alcatel-Lucent's platforms, applications and solutions for more than a decade. Before focusing on reliability engineering topics, Mr. Bauer spent two decades designing and developing embedded firmware, networked operating systems, IP PBXs, internet platforms, and optical transmission systems. He has been awarded more than a dozen US patents, authored five Wiley-IEEE Press books: "Service Quality of Cloud-Based Applications," "Reliability and Availability of Cloud Computing," "Beyond Redundancy: How Geographic Redundancy can Improve Service Availability and Reliability For Computer-Based Systems," "Design for Reliability: Information and Computer-Based Systems," and "Practical System Reliability." Mr. Bauer holds a BS in Electrical Engineering from Cornell University, Ithaca, New York, and an MS in Electrical Engineering from Purdue University, West Lafayette, Indiana.

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**Robert Bohn**  
**NIST Cloud**  
**Computing**  
**Program Manager,**  
**Advanced**  
**Networking**  
**Technologies**  
**Division, ITL, NIST**

Dr. Robert Bohn serves as Program Manager for the NIST Cloud Computing Program. In this role, he manages and coordinates the goals and strategy of the program and also works with industrial, academic and other government stakeholders to develop the US Government Cloud Computing Technology Roadmap (NIST SP 500-293). This roadmap contains the highest priority requirements in security, interoperability and portability to ensure a safe & secure adoption of cloud computing for the USG.

Previously, Dr. Bohn served as the Technical Coordinator for the High End Computing Interagency Working Group (HEC-IWG) at National Coordination Office of the Networking and Information Technology Research and Development (NITRD) under the Office of Science and Technology Policy (OSTP). He now serves as a co-chair for the FASTER Community of Practice under the NITRD Program.

He was a recipient of a National Research Council fellowship at NASA Ames Research Center in Moffett Field, CA, received Ph.D. in Physical Chemistry from the University of Virginia and a Bachelor of Science degree in Chemistry from the University of Illinois.

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**Harold Booth**  
**Computer**  
**Scientist, NIST**

Harold Booth is a Computer Scientist at the National Institute of Standards and Technology (NIST). Harold is the project lead for the National Vulnerability Database (NVD) and is involved in the development of the Security Automation Program specifications.

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**Dr. Neil  
Caithness**

**Senior Researcher  
Oxford e-Research  
Centre, University  
of Oxford**

At the OeRC I specialize in statistical modelling, machine learning, multi-label classification and predictive density estimation. I have built a strong track record of projects for the cloud deployment of analytically services which includes ViBRANT (an EU/FP7 project to build a virtual laboratory for the biodiversity research community) and LEFT (a tool for ecological and environmental valuation funded by Statoil). Along with a small team of researchers at the OeRC I have also developed OBOE - the Oxford Batch Operation Engine - a platform for the cloud deployment of analytically services which we continue to develop. I am also currently working on the CloudWatch project which aims to analyze a wide range of use cases for cloud interoperability and derive a set of credible and sustainable standards profiles to support the understanding and uptake of standards recommendations.

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**Jason S.  
Christman,  
CISSP, PMP**

**Cybersecurity  
Expert**

**McClure, Brown, &  
Associates LLC**

Mr. Jason Christman is a cybersecurity expert with McClure, Brown, & Associates, a human decision analytics, strategic cyber services, and competitive intelligence company that uses a mature process of neurocognitive fingerprinting to analyze indicators of human thought patterns found within cyber-cloud ecosystems. He has extensive experience in strategic cyber planning, full spectrum cyber operations, and advanced technology development across multiple mission areas for homeland defense, intelligence, and special operations. Over the span of his career, he has developed and deployed disruptive solutions to complex challenges involving dynamic network defense, industrial control systems security, competitive and counter-intelligence, human cyber forensics, behavioral profiling and analytics, cyber threat analytics, and risk management.

Additionally, Mr. Christman is an Air Force Master Cyber Operations Officer in the Air National Guard where he serves as Commander of a Cyber Operations Squadron and Director of Joint Cyber Operations at the Joint Force Headquarters level. As Director of Joint Cyber Operations, he oversees joint Air and Army National Guard domestic cyber defense policy and planning efforts and assists the Joint Staff with integration of National Guard cyber defense capabilities into State and Federal civil response efforts. Mr. Christman has a M.S. in Computer Science from Johns Hopkins, a B.S. in Computer Science from Villanova, and is CISSP and PMP certified.

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**John Connor**  
**IT Security**  
**Assessor, NIST**

John Connor works on internal assessment and authorizations as well as vulnerability and web application scanning at NIST. He is currently heading the assessment and authorization process for cloud computing at NIST. He has spoken about assessing cloud security at several Department of Commerce events as well as with other Government agencies. John also served on one of the original FedRAMP tiger teams. Previous to his now 9 years at NIST John worked as a contractor and consultant to civilian and defense agencies on various IT projects including server administration, web development, database management and IT security. John holds a CISSP certification and has a BS from George Mason University.

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**Dr. Scott Coull**  
**Research Scientist,**  
**RedJack**

Dr. Scott Coull is a research scientist at RedJack, where he develops cutting-edge products and technologies to detect and prevent network attacks. In this position, he gets to play with massive amounts of data, develop unique solutions to challenging problems, and push the boundaries on our current understanding of security and privacy. He has published more than 20 papers in the field's top venues on topics that include data privacy, network traffic analysis, and applied cryptography, and his research is often featured in press outlets such as MIT Tech Review, New Scientist Magazine, and Slashdot. Dr. Coull has also acted as privacy advisor to the DHS PREDICT and FCC Measuring Mobile Broadband projects. Prior to his time at RedJack, Dr. Coull was a Computing Innovations Fellow at the University of North Carolina — Chapel Hill.

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**Emmanuel**  
**Darmois**  
**Co-founder and**  
**CEO of CommLedge**

Emmanuel has over thirty years of experience in various positions in academics and in the ICT industry.

He has started as a Computer Science professor and researcher in Artificial Intelligence and Expert Systems. For over 20 years, he has been working with Alcatel-Lucent in various positions in Research, R&D and operational business. In his last position there, he has been VP Standards: this is where he caught the 'standards virus' that turns any reasonable engineer into a standards propagandist.

He is ETSI Vice-Chairman of the Board, and chair of the Operational Coordination Group. He is very active Smart Grids (convener of the Methodology work group in the Smart Grids Coordination Group), Smart Cities, and Cloud Computing (he has been the coordinator within ETSI for the Cloud Standards Coordination initiative).

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He is the co-founder and CEO of CommLedge. His current work includes the coordination of Cloud Standards Coordination Phase 2, on behalf of ETSI and the European Commission.

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**Frederic de  
Vault**

**VP Prometheus  
Computing LLC**

**Chair, NIST Cloud  
Service Metrics  
Public Working  
Group**

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Frederic is a senior software engineer specializing in the analysis, design and development of software applications. He earned a master's degree in computer science from ESIAL France in 2003 and has served as technical lead on several projects.

Frederic has been involved in the NIST Cloud Computing Program since January 2011, first as part of its public working groups (mainly the Reference Architecture and Taxonomy Working Group) and then as a program associate. He currently leads the Cloud Metrics Public Working Group, which is part of the Reference Architecture and Taxonomy Working Group. The group is developing a model to define cloud metrics.



**Dr. Donald  
Deutsch**

**Oracle, Vice  
President, Chief  
Standards Officer**

Don Deutsch is Vice President, Chief Standards Officer for Oracle in Redwood Shores, CA. He is responsible for coordinating Oracle's participation in technical standards and consortia forums across all business units and geographies.

Don has chaired the US group responsible for developing SQL database language standards (now INCITS DM32.2) for over 30 years; he also chairs INCITS DM32 Data Management & Interchange and serves as Vice Chair of the INCITS Executive Board, the US Technical Advisory Group for ISO/IEC JTC 1.

Internationally, Don Chairs ISO/IEC JTC 1 SC38 – chartered to develop standards for Cloud Computing and facilitating technologies including web services and Service Oriented Architecture (SOA). He also serves as an IT industry champion for the IEC Chair, and recently completed the maximum two 3 year terms as an inaugural member on the IEC Market Strategy Board.

Don has represents Oracle at the executive/policy level in various consortia as well as in formal standards bodies including: the Executive Committee for the Java Community Process and the Advisory Committee of the World-Wide Web Consortium (W3C). He currently serves as Co-

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Chair of the W3C Patent and Standards Interest Group as well as on the American National Standards Institute (ANSI) Board of Directors.

Prior to joining Oracle he held senior software engineering management positions with Sybase and the Information Services Division of General Electric Co. Before working in industry Don managed the database management systems standards and supporting research program at the U.S. National Bureau of Standards (now the National Institute for Standards and Technology/NIST), held a full-time faculty appointment in the Information Systems Management Department of the University of Maryland, and worked as a consultant for an international public accounting firm.

Dr. Deutsch earned a BS from Miami University in Oxford, OH, and MBA and doctorate degrees from the University of Maryland, College Park. He has published numerous articles and papers, and co-authored an undergraduate textbook on Database Concepts; the National Bureau of Standards published his doctoral research on Modeling and Measurement of Database Management Systems.

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**Stephen L.  
Diamond**

**Chair, IEEE Cloud  
Computing  
Standards  
Committee**

**Vice Chair, IEEE  
Future Directions  
Committee**

**Global Standards  
Officer and  
General Manager  
of the Industry  
Standards Office,  
EMC Corporation**

Stephen L. Diamond is the Chair of the IEEE Cloud Computing Standards Committee and Vice Chair of the IEEE Future Directions Committee.

Steve was the Founder of the IEEE Cloud Computing Initiative, funded by the IEEE New Initiative Committee. During the past three years, the CCI created IEEE Cloud Computing Magazine, IEEE Transactions on Cloud Computing, two cloud standards working groups, a cloud computing testbed in the Industry Connections program, a professional-level cloud education program, a new conference (IEEE Cloud Computing in Emerging Markets), and widely-viewed cloud computing web portal. The CCI transitioned its activities into the ongoing Cloud Computing Program within the IEEE Computer Society.

He was 2003 President of the IEEE Computer Society, and served as Computer Society Treasurer in 2001, Vice President for Standards in 1999-2000, and Editor-in-Chief of IEEE Micro Magazine from 1995-98. Steve served on the IEEE Board of Directors twice, in 2005-06 and 2009-10, and chaired its Marketing & Sales and Strategic Planning Committees. He was a founding member and Vice Chair of the IEEE Standards Association Board of Governors in 2001-02.

Steve has more than 30 years of senior management, marketing, mergers & acquisitions, business development, industry standards, strategic planning, and engineering management experience in computer hardware, software, and semiconductors.

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He is Global Standards Officer and General Manager of the Industry Standards Office at EMC Corporation, a multinational Fortune 500 cloud computing, big data, and IT solutions provider headquartered in Hopkinton, MA.

Prior to EMC, Steve was Director of Product Management for Intercloud Computing at Cisco Systems, where he built what was at the time the largest Amazon Web Services-compatible cloud outside of Amazon, and was responsible for Cisco's cloud computing industry standards program.

Before that, he was Vice President of Marketing at Equator Technologies, a very-long-instruction-word signal-processing chip startup, Vice President of Business Development at Tycho Networks, Director of Mergers and Acquisitions at National Semiconductor, and Director of SPARC Marketing at Sun Microsystems.

Steve is a prolific speaker on cloud computing, the Intercloud, and big data, recently serving as General Co-Chair of IEEE CloudCom, and has authored more than 20 technical publications on cloud computing, memory and microprocessor technology, signal processing, expert systems, and computer graphics.

Steve was awarded the IEEE Computer Society Richard E. Merwin Medal in 2014, the IEEE Third Millennium Medal in 2000, and the IEEE Computer Society "Golden Core" in 1997.

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## **Donna Dodson**

**Chief  
Cybersecurity  
Adviser and  
Director of the  
National  
Cybersecurity  
Center of  
Excellence  
(NCCoE), NIST**

**Associate Director  
Chief Cyber  
Security Adviser  
ITL**

Donna Dodson is the Associate Director and Chief Cybersecurity Advisor of the Information Technology Laboratory (ITL) and the Chief Cybersecurity Advisor for the National Institute of Standards and Technology (NIST). She is also the Director of NIST's National Cybersecurity Center of Excellence (NCCoE).

Donna oversees ITL's cybersecurity program to conduct research, development and outreach necessary to provide standards, guidelines, tools, metrics and practices to protect the information and communication infrastructure. Under her leadership, ITL collaborates with industry, academia, and other government agencies in research areas such as security management and assurance, cryptography and systems security, identity management, security automation, secure system and component configuration, test validation and measurement of security properties of products and systems, security awareness and outreach and emerging security technologies. In addition, Donna guides ITL programs to support both national and international security standards activities. She recently led the establishment of the NIST NCCoE. Through partnerships with state, local and industry, the NCCoE collaborates with industry sectors to accelerate the widespread adoption of standards-based cyber security tools and technologies.

Donna's research interests include applied cryptography, key management, authentication and security testing. She has led technical teams to produce standards, guidelines and tools in each of these areas.

Donna received three Department of Commerce Gold Medals and three NIST Bronze Medals. She was a Fed100 Award winner for her innovations in cybersecurity and in 2011 was included in the top 10 Influential People in Government Information Security. Recently, FedScoop recognized Donna as one of DC's Top 50 Women in Tech.

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## **Kevin Dulany**

**Chief, Risk  
Management  
Framework  
Division at the  
Cybersecurity  
Strategy, Policy &  
Workforce  
Directorate, DCIO-  
CS**

Mr. Kevin Dulany is the Chief, Risk Management Framework Division at the Cybersecurity Strategy, Policy & Workforce Directorate, under the Deputy Chief Information Officer for Cybersecurity (DCIO-CS). His duties include the oversight of DoD's Certification and Accreditation (C&A) transformation efforts to the Risk Management Framework (RMF); chairs the RMF Technical Advisory Group (TAG); is the RMF (C&A) Advisor to the Information Security Risk Management Committee (ISRMC); is the DoD Tri-Chair for the Sub-Committee for the Committee on National Security Systems (CNSS); supports DoD's Cloud Security efforts; and is the DoD's Technical Representative to the Federal Risk and Authorization Management Program (FedRAMP). Mr. Dulany previously co-chaired the Joint Continuous Monitoring Working Group, and currently provides support to other CIO Council's Information Security and Identity Management Committee (ISIMC) led efforts as directed.

Mr. Dulany is a retired U.S. Marine (Master Sergeant) who held the IA Technician Military Occupational Specialty (MOS) and was the USMC Information Assurance Chief for his final of 4 years prior to retirement in 2004. After retirement, he worked at the Joint Interoperability Test Command (JITC) and was the Exercise Support Team Lead which conducted IA/Computer Network Defense (CND)/Cybersecurity assessments during Combatant Command Exercises (the largest and most notable was Bulwark Defender). Mr. Dulany was also responsible for the oversight of external Certification and Accreditation taskings, IA Metrics development, as well as provided IA policy support to U.S. Africa Command.

Mr. Dulany has been in the IT career field (programming, networking, IA/CS) since 1988; focusing on IA/CND/CS since 2000. Mr. Dulany holds numerous commercial certifications to include the Certified Information Systems Security Professional (CISSP), Certified Information Security Manager (CISM), Certified Information Systems Auditor (CISA), and Certified Authorization Professional (CAP). Mr. Dulany has been recognized for his achievements with DISA's Outstanding Testing Professional of the Year Award (2008), Army Research Lab's Partnering Award (2013), and was a Federal 100 Award winner (2013).

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**Dr. Michael John Edwards**

**IBM UK Ltd, Senior Technical Staff Member, , Cloud Computing and SOA Standards**

Mike Edwards works at IBM's Hursley Park labs in the UK and his focus is cloud computing - in particular cloud computing standards, security and privacy in cloud computing and the Bluemix PaaS environment.

Mike is chair of the UK IST38 cloud computing standards committee at BSI and UK head of delegation to the ISO/IEC SC 38 cloud computing standards committee. He is also a member of the ISO SC27 security standards committee and the JTC/1 WG10 committee on IoT standards. He is editor of the 19086 Part 1 standard on Cloud SLAs.

Mike works with customers who are looking to develop applications in a cloud computing environment, especially mobile and web applications. He helps customers to understand the productivity gains for both developers and operations staff which are possible with a Platform-as-a-Service environment such as IBM's Bluemix.

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**Fernando Gebara Filho**

**LUCIANO GEBARA CONSULTORIA E SERVIÇOS LTDA, Partner**

Fernando ([fernando.gebara@lucianogebara.com](mailto:fernando.gebara@lucianogebara.com)) is working in the international standards area since 2006, focusing mainly on Information Technology Standards under the scope of ISO/IEC JTC 1. Previously working as Regional Standards Manager for Latin America and the Caribbean in one of the top 5 IT global companies, Fernando is now a partner to a consulting practice bringing expertise, organizational structure and good practices to all types of organizations that wish to engage in and align business and product strategies with the International Standards ecosystem.

Fernando's current activities include: Convener of ISO/IEC JTC 1/SC 38/WG 5 Cloud Computing Data and its Flow (CCDF), Rapporteur for ANATEL/CBC-4 on ITU-D Q3/1 Access to Cloud Computing: Challenges and Opportunities for Developing Countries, Chairman of ABNT/CE-21:000.38, Brazilian Mirror Committee for ISO/IEC JTC 1/SC 38 Cloud Computing and Distributed Platforms, Secretary of ABNT/CE-21:000.07, Brazilian Mirror Committee for ISO/IEC JTC 1/SC 07 Software and Systems Engineering and ISO/IEC JTC 1/SC 40 IT Service management and IT Governance, member of ABNT/CE-21:000.27, Brazilian Mirror Committee for ISO/IEC JTC 1/SC 27 IT Security Techniques, Member of ABNT/CEE-126, Brazilian Mirror Committee for ISO TC 159/SC 4 Ergonomics of Human-System Interaction.

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**Joel J. Fleck II**  
**Head – Cloud**  
**Standards,**  
**Hewlett-Packard**

Joel J. Fleck II (joel.fleck@hp.com) is Head of Cloud Standards for Hewlett-Packard. In this role, Joel has served as a Board Director, executive, chief architect and lead contributor in numerous standards groups and activities including ISO/IEC JTC1 SC38, IEEE, INCITS DAPS38, TeleManagement Forum, WS-I, and OASIS. Joel is currently leading the SC38 effort on Cloud Interoperability and Portability and the IEEE efforts on Adaptive Management for Cloud Computing.

Prior to joining Hewlett-Packard in 1993, he spent 16 years at Bell Laboratories and Bell Communications Research researching and designing distributed communications and management systems, multimedia networks, automated test systems for the validation of digital communications systems and billing systems.

Joel graduated from the University of Michigan with a MS in Industrial and Operations Engineering and the University of Vermont with a BS in Computer Science with coordinate majors in Electrical Engineering and Environmental Engineering. He is a Distinguished Fellow of the TeleManagement Forum.

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**Dr. Jesus Luna**  
**Garcia**  
**Research Director,**  
**Cloud Security**  
**Alliance (Europe)**

Dr. Jesus Luna Garcia is the Research Director of the Cloud Security Alliance (Europe). His main responsibilities include the internal scientific/technical management of CSA's funded projects (EC FP7 and ENISA). Jesus has worked on the ICT security field for almost 20 years with industry and academia, both in America and Europe. Jesus obtained his PhD degree (Cum-Laude) in Computer Architecture from the "Technical University of Catalonia" (2008), and has authored more than 40 scientific publications in prestigious venues. Since 2003, Jesus is also affiliated with the CS department of the Technical University of Darmstadt (Germany).

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**Gordon  
Gillerman**

**Chief, Standards  
Services Division  
in Technology  
Services, NIST**

Gordon Gillerman, Acting Director, Standards Coordination Office and Chief, Standards Services, the National Institute of Standards and Technology (NIST) leads NIST's work in standards coordination including the National Voluntary Laboratory Accreditation Program and the NIST Standards Curricula Development Cooperative Agreement Program. Gordon coordinates and advises federal agencies and other stakeholders on standards and conformity assessment policy. The Standards Coordination Office is the NIST focal point for federal government standards coordination operates the U.S. Inquiry Point for the World Trade Organization's Technical Barriers to Trade Agreement and is a key information source for US industry on standards related market access issues. Gordon personally leads NIST's work with federal agencies to develop standards and conformity assessment policy and programs

Gordon has extensive experience coordinating standards policy and development across a wide range of critical issues in the U.S. including homeland security, safety, health and protection of the environment. an expert on conformity assessment systems and their nexus with regulatory and trade issues and a sought after lecturer on standards, conformity assessment and regulation. Gordon has worked collaboratively within the standards community to enhance health, safety, the environment and security throughout his career.

Prior experience include leading government affairs for the largest U.S. product safety certification and standard development organization, Underwriters Laboratories (UL) in Washington, DC, and Staff Engineer for the medical device and information technology sectors at UL's Northbrook, IL headquarters.

Gordon received a Bachelor's Degree BSEET from Bradley University in Peoria, IL.

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**Matt Goodrich**

**Director of  
FedRAMP, GSA's  
Office of Citizen  
Services and  
Innovative  
Technologies, US  
General Services  
Administration**

Matt Goodrich is the Director for the Federal Risk and Authorization Management Program (FedRAMP) in GSA's Office of Citizen Services and Innovative Technologies.

Matt has worked on FedRAMP as part of the Federal Cloud Computing Initiative since August of 2009. In this role, he manages the FedRAMP Program Management Office and sets the overall direction of the program. As a mandatory Federal-wide initiative, FedRAMP is one of the leading cloud computing security programs paving the way for cloud adoption and ensuring the security of cloud computing solutions used by the US Government.

Matt has focused his career on removing the barriers to cloud adoption across the Federal government. He was part of the team that created the first governmentwide cloud procurement vehicles through Apps.gov as well as the IaaS and cloud email BPAs at GSA. He authored two of the integral documents in the Administration's push for cloud adoption. First, during his tenure at OMB, he was the key author of Security Authorization of Information Systems in Cloud Computing Environments which created the FedRAMP program. Second, he co-wrote Creating Effective Cloud Computing Contracts for the Federal Government: Best Practices for Acquiring IT as a Service which provides guidance to agencies in how to procure cloud services and was published through the CIO and CAO Councils.

Matt has been recognized for his efforts by receiving a Federal Computer Weekly Fed100 award in 2013, a GSA Administrator's Award in 2014, and a FierceGovernmentIT Fierce15 Award in 2015.

Matt began his career in the Federal government as a Presidential Management Fellow (PMF) in 2009. Matt has a BBA in Computer Information Systems from the University of Miami (FL) and a Juris Doctor from the University of Denver.

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**Theresa M.  
Grafenstine**  
**Inspector General**  
**U.S. House of**  
**Representatives**

In 2010, the Honorable Theresa M. Grafenstine was named the Inspector General of the U.S. House of Representatives (House), having been unanimously appointed by the House Speaker, Majority Leader, and Minority Leader. Over the past twenty-three years, she has served in the Inspector General community in both the legislative and executive branches of the US Government. As the Inspector General, she is responsible for planning and leading independent, non-partisan audits, advisories, and investigations of the financial and administrative functions of the House.

She is also an active volunteer in support of the information technology, governance, internal auditing, and accounting professions. Ms. Grafenstine currently serves as on the board of directors and on the finance committee of the American Institute of Certified Public Accountants (AICPA). With over 400,000 members, the AICPA is the world's largest member association representing the accounting profession. Ms. Grafenstine also serves as International Vice President and audit committee chairman for ISACA, a global association with over 140,000 members in the IT audit, governance, security and risk profession. She also provides financial oversight as the audit committee chairman of the Pentagon Federal Credit Union, which has over \$19 billion in assets and 1.2 million members.

Ms. Grafenstine is a Certified Public Accountant (CPA), a Certified Internal Auditor (CIA), Certified Government Auditing Professional (CGAP), Certified Information Systems Auditor (CISA), Certified in the Governance of Enterprise Information Technology (CGEIT), Certified in Risk and Information Systems Control (CRISC), and a Chartered Global Management Accountant (CGMA). Ms. Grafenstine received a bachelor's degree in Accounting from Saint Joseph's University in Philadelphia, Pennsylvania.

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**Melvin B. Greer**

**Senior Fellow,  
Chief Strategist,  
Lockheed Martin**

With over 29 years of systems and software engineering experience, Melvin Greer is a recognized expert in Service Oriented Architecture, Cloud Computing and Predictive Analytics. He functions as a principal investigator in advanced research studies, including Nanotechnology, Synthetic Biology and Gamification. He significantly advances the body of knowledge in basic research and critical, highly advanced engineering and scientific disciplines. Mr. Greer is a Certified Enterprise Architect, the Chair of the Network Centric Operations Industry Consortium (NCOIC), Cloud Computing Working Group and a member of the U.S. National Academy of Science.

Mr. Greer has been awarded the BEYA 2012 Technologist of the Year Award, which recognizes his outstanding technical contribution and technical products that have a broad impact and high value to society as a whole. Melvin has been recognized for his outstanding technical contributions to cloud computing and service-oriented architecture. Melvin Greer has been appointed Fellow of the National Cybersecurity Institute where he assists government, industry, military, and academic sectors meet the challenges in cyber security policy, technology and education.

In addition to his professional and investment roles, he is Founder and Managing Director of the Greer Institute for Leadership and Innovation, focused on research and deployment of a 21st Century Leadership Model. Mr. Greer is Fellow and Adjunct Faculty at the FEAC Institute and the University of Puerto Rico at Mayaguez, College of Engineering. He is also a member of the International Monetary Fund / World Bank, Bretton Woods Committee where he explores how deployment of enabling technologies relates to private sector development, commercial opportunities, global financial stability and social responsibility. Mr. Greer is a frequent speaker at conferences and universities and is an accomplished author; his fourth book "21st Century Leadership" is his most recently published book.

As a popular educator and board member at a number of Historical Black Colleges and Universities (Alabama State University College of Engineering, and Bowie State University), Greer is leading science, technology, mathematical and engineering (STEM) research initiatives, directly trying to shape a more diverse generation of up-and-coming technical talent.

Greer received his Bachelor of Science degree in Computer Information Systems and Technology and his Master of Science in Information Systems from American University, Wash. D.C. He also completed the Executive Leadership Program at the Cornell University, Johnson



**Ragib Hasan,  
Ph.D.**

**Assistant  
Professor &  
Director, UAB  
SECRETLab,  
Department of  
Computer and  
Information  
Sciences,  
University of  
Alabama at  
Birmingham,  
Birmingham**

Ragib Hasan, Ph.D., is a tenure-track Assistant Professor at the Department of Computer and Information Sciences at the University of Alabama at Birmingham.

Hasan explores research on cloud security, the Internet of Things, digital forensics, mobile malware security, secure provenance, biomedical device security, social network security, and database security. Hasan is the founder of the Secure and Trustworthy Computing Lab (SECRETLab) at UAB. He is also a member of the UAB Center for Information Assurance and Joint Forensics Research and a member of the NIST Working group on Cloud Forensics.

Prior to joining UAB, He received his Ph.D. and M.S. in Computer Science from the University of Illinois at Urbana Champaign in October, 2009, and December, 2005, respectively, and was an NSF/CRA Computing Innovation Fellow post-doc at the Department of Computer Science, Johns Hopkins University.

Dr. Hasan's research is supported by the Department of Homeland Security, the Office of Naval Research, the National Science Foundation, Facebook Inc., Google Inc., and Amazon Inc. He is a 2014 awardee of the prestigious NSF CAREER Award from the National Science Foundation for his work on cloud security. Dr. Hasan is also a recipient of the 2013 Google RISE Award, a 2013 Information Society Innovation Fund Award, 2013 Deutsche-Welle Best of Blogs and Online Innovation award, a 2011 Google Faculty Research Award, the 2009 NSF Computing Innovation Fellowship and the 2003 Chancellor Award and Gold Medal from Bangladesh University of Engineering and Technology. He is a founding member of Wikimedia Bangladesh chapter, a long term administrator of Bangla and English Wikipedias, and also the founder of Shikkhok.com – an award-winning online education platform for advancing STEM education in rural areas of India and Bangladesh which has won the 2013 Google RISE Award and 2013 Information Society Innovation Fund Award.

Web: <http://www.ragibhasan.com> . <http://secret.cis.uab.edu>

Email: [ragib@cis.uab.edu](mailto:ragib@cis.uab.edu)

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**Gunnar  
Hellekson**

**Chief Strategist,  
Red Hat's US Public  
Sector**

Gunnar Hellekson is the Chief Strategist for Red Hat's US Public Sector group, where he works with systems integrators and government agencies to encourage the use of open source software in government. He is a founder of Open Source for America, one of Federal Computer Week's Fed 100 for 2010, and was voted one of the FedScoop 50 for industry leadership. He is an active member of the Military Open Source working group, the SIIA Software Division Board, the Board of Directors for the Public Sector Innovation Group, the Open Technology Fund Advisory Council, New America's California Civic Innovation Project Advisory Council, and the CivicCommons Board of Advisors. He is especially interested in cross-domain security, edge innovation, and interagency collaboration through the open source model. He is also co-host of the Dave and Gunnar Show.

Prior to joining Red Hat, he worked as a developer, systems administrator, and IT director for a number of Internet businesses. He has also been a business and IT consultant to not-for-profit organizations in New York City. During that time, he spearheaded the reform of safety regulations for New York State's electrical utilities through the Jodie Lane Project.

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**Dr. Martin  
Herman**

**Senior Advisor for  
Forensics and IT,  
ITL, NIST**

Dr. Martin Herman is the Senior Advisor for Forensics and IT in the Information Technology Laboratory, National Institute of Standards and Technology (NIST). He is responsible for coordinating and expanding a comprehensive program that applies innovations in computer science, math and statistics to advance measurements and standards for forensic sciences. He is also Co-Chair of the NIST Cloud Computing Forensic Science Public Working Group and helps lead NIST research in Footwear and Tire Tread Forensics.

Previously, he was Chief of the Information Access Division at NIST, where he was responsible for the Division's program in research, measurements, testing, and standards in information access technologies, including biometrics, speech processing and human language technologies, multimedia information access, information retrieval, image and video processing technologies, visualization and usability testing, human-computer interfaces, and smart spaces.

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**Eric A. Hibbard,**  
**CISSP, CISA**

**CTO, Security and  
Privacy, Hitachi  
Data Systems**

Eric Hibbard is Hitachi Data Systems' CTO for Security and Privacy where he is responsible for product security strategies and oversees the integration of security and privacy measures in products and services. Mr. Hibbard is a senior security professional with 30+ years of experience in enterprise-class ICT, working for government, academia, and industry.

Hibbard is actively involved in a wide range of technologies and represents Hitachi and HDS in several standards development organizations (ISO/IEC, ITU-T, INCITS, and IEEE) and industry associations (SNIA, TCG, DMTF, ODCA, IIC, and ISACA). He currently serves as the International Representative for INCITS/CS1 Cyber Security, Co-Chair of the Cloud Security Alliance (CSA) International Standardization Council, Chair of the IEEE Information Assurance Standards Committee (IASC), Co-Chair of the ABA Electronic Discovery and Digital Evidence (EDDE) Committee, Co-Chair of the ABA IoT Committee, Vice Chair of the ABA Cloud Computing Committee, and Chair of the SNIA Security TWG. In addition, he is currently the ISO Project Editor of ISO/IEC 27050 (Electronic discovery) and the ISO Editor of ISO/IEC 20648 (TLS for Storage) draft standards as well as served in an editorship role for the recently published ISO/IEC 27040:2015 (Storage security) and Rec. ITU-T Y.3500 | ISO/IEC 17788:2014 (Cloud computing - Overview and vocabulary).

Mr. Hibbard currently holds the (ISC)2 CISSP certification as well as the ISSAP, ISSMP, and ISSEP concentrations. He also holds the ISACA CISA certifications. His educational background includes a B.S. in Computer Science and a Certificate of Proficiency in Data Communications.

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**Karen Ruth  
Higginbottom**

**Director,  
Standards  
Initiatives,  
Hewlett-Packard  
Company**

Karen Higginbottom, Hewlett-Packard Company, is Director of Standards Initiatives in HP Labs' Global Technology Program. She is the Chair of ISO/IEC JTC 1, Information Technology, serving in that capacity since November of 2008. From 1999 through 2008, Karen served as Chair of INCITS, the US TAG to ISO/IEC JTC 1. Karen was the Convenor of the ISO/IEC JTC 1 SWG on Accessibility from 2004 until 2008 and served as a mentor to JTC 1 Publicly Available Specification (PAS) Submitters.

She is a member of ITI's Standards Policy Committee, ANSI's International Policy Committee, ANSI's ISO Forum and ANSI's ISO Council. In 2007, she received ANSI's Edward Lohse Information Technology Medal. Karen received IEC's Thomas A. Edison Award in 2012.

Prior to her employment with HP, Karen led the Standards and Consortia team at Apple Computer and was a manager in Pacific Bell's mainframe computer centers and data communication strategic planning division. Karen holds a BA degree in Communications - Television Production from

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**Steve Holbrook**

**Program Director,  
International  
Software  
Standards, IBM**

Steve Holbrook is IBM's program director for open software standards. He is IBM's primary representative on the INCITS Executive Board, the US mirror committee for ISO/IEC JTC 1. He is also the chair of the US mirror committee for JTC 1 SC 38 (since January 2010) and the chair of the US Ad Hoc on Smart Cities working with JTC 1 Study Group on Smart Cities (SG 1).

He joined IBM in September 2000 as the technology evangelist for Web Services. He served over 11 years as IBM's primary contact (the "AC Rep") to W3C (World Wide Web Consortium) and served 8 ½ years as an elected member of the W3C Advisory Board. He also served 6 years on the WS-I (Web Services – Interoperability) Board of Directors.

Prior to IBM, Steve worked for Novell for 15 years in various leadership positions dealing with APIs, SDKs and standards, including serving as Novell's W3C AC Rep. Most notably he was Novell's key Java strategist and was an active leader in reshaping the Java Community Process.

He received his education in Computer Science from BYU. He lives and works in Utah.

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**Dr. Michaela  
Iorga**

**Senior Security  
Technical Lead for  
Cloud Computing,  
NIST**

Dr. Michaela Iorga is the Senior Security Technical Lead for Cloud Computing with the National Institute of Standards and Technology (NIST) and the Co-chair of NIST Cloud Computing Security and Cloud Computing Forensic Science Working Groups. Michaela is a recognized expert in cloud computing, information security risk assessment, information assurance and ad-hoc mobile networks. She has an extensive knowledge base in the development of complex security architectures and a deep understanding of security, privacy and identity and credential management issues in the cyberspace - an expertise she gained while serving, in different roles, government, academia and private sectors. In her role at NIST, Dr. Iorga promotes American innovation and industrial competitiveness by working with industry, academia, and other government stakeholders to develop and disseminate vendor-neutral cybersecurity standards and guidelines that meet national priorities. Her current focus includes the development of security, privacy and forensic science specifications and guidelines that support the widespread adoption of cloud computing.

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**Robert Jackson**  
**Vice President of**  
**Operations,**  
**SphereCom**  
**Enterprises Inc.**

Mr. Robert Jackson is Vice President of Operations for SphereCom [ Enterprises Inc., a Virginia-based business that specializes in cybersecurity, telecommunications engineering, and security operations for advanced technologies such as cloud computing (including FedRAMP), Radio Frequency Identification, mobile and ad hoc wireless communications, and robotics.

Mr. Jackson is a Certified Information Security Manager (CISM) who holds a Bachelor of Science degree in Computer Science from the US Air Force Academy, and a Master of Science degree in Systems Management from the University of Southern California. Mr. Jackson has been listed in Who's Who in the West and Who's Who in the Computer Industry.

Mr. Jackson is an active member of the NIST Cloud Computing Forensic Science Work Group and was a contributor on NIST IR 8006, Cloud Computing Forensic Challenges. Mr. Jackson has acted as a panelist or moderator at various conferences that have focused on cloud computing forensics, Internet of Things, Everything as a Service, and other emerging distributed computing delivery models.

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**Babak Jahromi**  
**Cloud Standards**  
**Architect,**  
**Microsoft**  
**Corporation**

Babak Jahromi is a Standards Architect at Microsoft focusing on Cloud Computing. He is a 24-year veteran of the software industry with hands on software development experience in operating systems and middleware. He has been involved in the development of OS/2 2.0, Windows NT 3.1, 4.0, 2000 and Windows 95 and 98 as well as Windows Communication Foundation, among others. He currently works at Microsoft's Corporate Standards Group where he advises Microsoft product teams on emerging platform standards and represents the company in standards organizations. He is currently involved in development of Cloud computing standards at international level in ISO/IEC JTC1 and ITU-T. He has a degree in Electrical Engineering from Columbia University and has done graduate work in EE and CS at University of Washington. He holds several patents in the areas of Windows Printing and Distributed Web Services Diagnostics.

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## **Skip Jentsch**

**Cloud IaaS Service  
Line Manager,  
General Services  
Administration**

Mr. Jentsch has a background as a federal CIO for an independent small agency within the Department of Interior. He possesses over 20 years experience in managing IT enterprises in the public, private and non-profit sectors.

He joined the GSA cloud computing program office in 2013 as the Cloud Service Line Manager responsible for managing the Government wide cloud-focused acquisition vehicles Infrastructure as a Service (IaaS) Blanket Purchase Agreement (BPA) and Email as a Service (EaaS) BPA.

In this capacity, he is responsible for promoting the adoption of cloud computing services while assisting federal, state, local and tribal governments in realizing cost savings and efficiencies. In this way, Skip helps agencies with modernizing and expanding their IT capabilities through the adoption of cloud and other innovative technology.

Skip engages with government customer agencies, educates them about GSA cloud offerings and services, provides strategic guidance, technical insight and acquisition aid as requested, thereby helping agencies implement Cloud technology by leveraging the GSA IaaS and EaaS BPAs.

Additionally, he is involved in market research, feasibility studies and the development of next generation GSA cloud initiatives such as the Cloud Services Broker (CSB) Proof of Concept (POC) and proposed creation of a new Cloud Special Item Number (SIN) to better identify cloud services on GSA's IT Schedule 70 contract.



## **Karuna Pande Joshi**

**Research Assistant  
Professor,  
University of  
Maryland,  
Baltimore County**

Karuna P Joshi is a Research Assistant Professor at the University of Maryland, Baltimore County (UMBC) whose primary research area is Cloud Computing and Healthcare IT. She has developed a framework to automate the acquisition and consumption of cloud based services. She is currently working on Semantic approaches to manage Cloud SLAs and data security/privacy. She has worked in collaboration with NIST to develop standards for Cloud Usability. She is also the owner and founder of JAKTec (<http://www.jaktec.com>). Dr. Joshi has over 20 years of experience, primarily as cloud researcher and an IT manager. She worked at the International Monetary Fund for nearly a decade. Her managerial experience includes portfolio management, program/project management and change management. She received her MS and PhD in Computer Science from UMBC, where she was twice awarded the IBM PhD Fellowship, and her Bachelors in Computer Engineering from the University of Mumbai, India.



**Anil Karmel**  
**Founder and CEO**  
**of C2 Labs**

Anil Karmel is the founder and CEO of C2 Labs, a cloud security and services company that partners with organizations on their journey to the cloud, designing innovative strategies addressing key cyber security, policy, operational and architectural concerns to allow IT to take back control through our forward-thinking products and services. Formerly, Anil served as the National Nuclear Security Administration's (NNSA) Deputy Chief Technology Officer. Within NNSA, Karmel served as the RightPath Chief Architect and Management and Operations (M&O) Implementation Lead for a range of enterprise information technology (IT) solutions including cloud computing, enterprise mobility, unified communications and enterprise wireless. RightPath is a lean and agile methodology employed via a partnership between the Department of Energy (DOE) Office of the Chief Information Officer and NNSA, delivering IT transformation to DOE by focusing on the key areas of people, process and technology.

Karmel has been in the IT Industry for over fifteen years, working with various Fortune 500 companies and government in the areas of enterprise virtualization, messaging and collaboration. He and his team garnered industry and government accolades, including the SANS National Cyber Security Innovators Award for Cloud Security, InformationWeek 500 Top Government IT Innovators, ACT/IAC Excellence.gov Award and the DOE Secretary's Achievement Award. His team at LANL was named an ACT/IAC Excellence.gov Finalist two years running. Karmel is a internationally recognized speaker and has been featured at numerous IT conferences and webinars, including VMworld and Gartner.

Anil holds a Bachelor's of Science Degree from the University of Illinois – Urbana/Champaign, is a member of the Project Management Institute and is the co-chair of the National Institute of Standards and Technology (NIST) Cloud Security Working Group, currently leading the security working group chartered to create the Risk Management Framework for Cloud (RMF4C), a new 800-level standard to quantify risk in a cloud-connected enterprise. He also sits on the board of the Cloud Computing Caucus Advisory Group chaired by Congressman Darrell Issa (R-CA) and Gerry Connolly (D-VA) focused on educating lawmakers and the public about cloud computing as well as other information technology issues.

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**Heather Kreger**

**CTO International Standards, IBM**

Heather Kreger is IBM's CTO of International Standards and a Distinguished Engineer. She is responsible for setting the strategy for software group's engagement in international standards. Heather's current focus is on SOA and Cloud architecture standards. Heather is also leading IBM's development and publication of Cloud Customer Architectures with the CSCC while driving first class product support from IBM. With 20 years of standards experience, she has led the development of standards for Cloud, SOA, Web services, Management and Java in numerous standards organizations, including W3C, OASIS, DMTF, IEEE, ISO/IEC JTC1, and The Open Group. Heather is currently co-chair for The Open Group's SOA Work Group and liaison for The Open Group SOA and Cloud Work Groups to ISO/IEC JTC1 SC38. Heather is also the author of numerous articles and specifications, as well as the book "Java and JMX, Building Manageable Systems," and co-editor of "Navigating the SOA Open Standards Landscape Around Architecture."

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**Swapnil Kulkarni**

**Senior Software Engineer at Red Hat**

Swapnil Kulkarni as the Senior Software Engineer at Red Hat, contributes to OpenStack and Container technologies both at Open Source and Red Hat products. He also presented on OpenStack and Open Source at various global conferences and an active contributor to initiatives at Cloud Computing Innovation Council of India which is an open community of technical experts from Industry, Academia and Government.

Swapnil Kulkarni is also Vice-Chair & Program Manager - Cloud SLAs at Cloud Computing Innovation Council of India,

Program Manager - Standards and Interoperability at Cloud Computing Innovation Council of India

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**Cary Landis**

**Executive Director,  
FedPlatform.org**

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Cary is Executive Director of FedPlatform, a nonprofit that helps federal agencies navigate the complex world of cloud computing by way of a testbed and other resources. Cary serves as a Principal Cloud Computing Architect at SAIC, and has supported several leadership roles in the Federal technology community, including founder of Virtual Global, a DevOps company, CIO at KeyLogic Systems, vice president at TMC Technologies, and co-chairing the NIST Cloud Services Clarification Public Working Group.



**Dawn Leaf**

**Chief Information  
Officer, US  
Department of  
Labor**

Dawn Leaf is the Chief Information Officer for the United States Department of Labor. She assumed this role in 2014 after having served as the Department's Deputy CIO. In 2014, Ms. Leaf was also named as one of the FCW "Federal 100," and FedScoop's "DC's Top 50 Women in Tech" in recognition of the difference she has made in the way information technology is used to advance agency missions. As CIO she is leading the transformation of DOL IT.

Prior to her appointment to DOL in 2012, Ms. Leaf served as the Senior Advisor for Cloud Computing in the National Institute of Standards and Technology Information Technology Laboratory. Under her stewardship, NIST achieved international recognition in the arena of Cloud Computing. Ms. Leaf was honored among the ten "Top Women in Cloud" by the CloudNOW organization. She was also recognized as one of the FierceGovernment first annual "Fierce 15," which recognizes some of the "... most innovative projects and forward-thinking people working in government IT."

Ms. Leaf served as the Deputy Chief Information Officer/Chief Technology Officer for the United States Department of Commerce, the Chief Information Officer of the Bureau of Industry and Security, and Chief Technology Officer of the Smithsonian Institution.

Before joining the federal government in 1999, Ms. Leaf acquired broad experience in advanced technology and large scale distributed systems development and engineering. Ms. Leaf's foundation in Information Technology came from her 1981-1995 tenure with the Westinghouse Electric Corporation (Northrop-Grumman). Dawn Leaf holds an M.S. in Systems Engineering from the Johns Hopkins University, Whiting School of Engineering, and is a cum laude graduate of McDaniel College.

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**Dr. Craig A. Lee**

**Senior Scientist,  
The Aerospace  
Corporation**

Craig Lee has worked in high-performance parallel and distributed computing for the last 30 years, which led to involvement in the Open Grid Forum (OGF) where he served as President from 2007 to 2010. He served as the main liaison between OGF and the Distributed Management Task Force (DMTF), Storage Networking Industry Association (SNIA), TM Forum, the Open Cloud Consortium, Cloud Security Alliance, OMG, and OASIS. He is now on the OGF Board of Directors and heavily involved with NIST, having contributed significantly to the NIST Cloud Standards Roadmap and supporting the NIST Cloud Technology Roadmap. He has served on the program committee for many conferences and workshops, and has served as a panelist for the NSF, NASA, DOE, and as an international evaluator for INRIA (French Institute for Research in Computer Science and Automation). He is an associate editor of Future Generation Computing Systems (Elsevier publishers) and on the editorial board of the International Journal of Cloud Computing (Inderscience publishers). Dr. Lee has published over 70 technical works, including 4 book chapters and 7 edited volumes and issues.

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**Naomi Lefkovitz**

**Senior Privacy  
Policy Advisor in  
the Information  
Technology  
Laboratory, NIST**

Naomi Lefkovitz is the Senior Privacy Policy Advisor in the Information Technology Lab at the National Institute of Standards and Technology, U.S. Department of Commerce. Her portfolio includes work on the National Strategy for Trusted Identities in Cyberspace (NSTIC), privacy engineering, privacy-enhancing technologies, cybersecurity and standards development.

Fierce Government IT named Ms. Lefkovitz on their 2013 “Fierce15” list of the most forward-thinking people working within government information technology, and she is a 2014 Federal 100 Awards winner.

Before joining NIST, she was the Director for Privacy and Civil Liberties in the Cybersecurity Directorate of the National Security Staff in the Executive Office of the President. Her portfolio included the NSTIC as well as addressing the privacy and civil liberties impact of the Obama Administration’s cybersecurity initiatives and programs.

Prior to her tenure at the White House, Ms. Lefkovitz was a senior attorney with the Division of Privacy and Identity Protection at the Federal Trade Commission. Her responsibilities focused primarily on policy matters, including legislation, rulemakings, and business and consumer education in the areas of identity theft, data security and privacy.

At the outset of her career, she was Assistant General Counsel at CDnow,

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Inc., an early online music retailer.

Ms. Lefkovitz holds a B.A. with honors in French Literature from Bryn Mawr College and a J.D. with honors from Temple University School of Law.

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**Laura Lindsay**  
**US National**  
**Standards Officer,**  
**Microsoft**  
**Corporation**

Laura has been working in the industry on cloud computing, Information security, International standards, network operations, and architecture for over 20 years. She has spent the last 10 years working on standards and is the editor of several standards including Recommendation Y.3502|ISO/IEC 17789, Cloud Computing Reference Architecture.

Ms. Lindsay currently works within the Corporate Standards team, working on standards in the area of Cloud Computing, Information Security and Internet of Things. Her background in delivering security solutions for customers and the industry as a whole has helped to bring a implementers view to International Standards. Prior to her current role she worked in Consulting Engineering (focusing on Cloud Security), Information Security (Infosec), and Network Operations and Design.

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**Eric Martin**  
**CTO, Cloud &**  
**Solutions Security,**  
**Avaya**

Eric Martin has a diverse background as a technology leadership that has focused on web-scale technologies and the Cloud. Mr. Martin is currently Avaya's CTO, Cloud & Solutions Security, leading Avaya's internal Information Security, and the company's product and solutions security strategy. He also consults with Avaya customers on security architecture, building secure apps & services, operating at scale, and risk management. Prior to Avaya, he was eBay, Inc.'s VP, Chief Information Security Officer leading security for all eBay, Inc. holdings which include PayPal, Marketplaces, eBay Enterprise and all subsidiaries with over \$16B in revenue, over 300M active customers, \$80B+ GMV and more than a \$145 billion PayPal transaction volume across 22 regions. Before eBay, Mr. Martin was VP, Chief Information Officer, for Intuit, a \$4.5B Financial Technology Services Company that includes TurboTax, Payments, Payroll, Financial Services, Intuit Health Group, and Banking SaaS & Mobile Infrastructure for 1,800+ banks. Prior to Intuit, Mr. Martin was Chief Information Security Officer and leader of Security Engineering for Amazon.com, a \$50B+ eCommerce and Cloud Services provider. In this role he was responsible for Amazon's retail, digital, and payments security, as well as, Amazon Web Services. He was responsible for much of early AWS security principles and architecture that is still in use and has proven to scale, for which he has several patent submissions. Mr. Martin has a total of 9 patent submissions while at Amazon, 4 so far resulting in patents. Prior to Amazon, Mr. Martin held a number of

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technology leadership roles with IBM, TNS and a number of startups.

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**Dr. Willie E. May**

**NIST Director;  
Under Secretary of  
Commerce for  
Standards and  
Technology  
Office of the  
Director**

On May 4, 2015, Congress confirmed Dr. Willie E. May as the 15th Director of the National Institute of Standards and Technology (NIST). He also serves as Under Secretary of Commerce for Standards and Technology, a position created in the America COMPETES Reauthorization Act of 2010. Dr. May had served as Acting NIST Director and Acting Under Secretary of Commerce for Standards and Technology since June 2014. Prior to that assignment, he was Associate Director for Laboratory Programs, where he was responsible for oversight and direction of NIST's seven laboratory programs and served as the principal deputy to the NIST Director.

As NIST Director, Dr. May provides high-level oversight and direction for NIST. The agency promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology. NIST's FY 2015 resources total \$863.9 million in direct appropriations, an estimated \$50 million in service fees, and \$120 million services rendered to other agencies on a cost reimbursable basis. NIST employs about 3,000 scientists, engineers, technicians, support staff, and administrative personnel at two main locations in Gaithersburg, MD, and Boulder, CO. NIST also hosts ~3500 Associates from academia, industry, and other government agencies, who collaborate with NIST staff and access user facilities. In addition, NIST partners with more than 1,300 manufacturing specialists and staff at more than 400 MEP service locations around the country.

Dr. May led NIST's research and measurement service programs in chemistry-related areas for more than 20 years. His personal research activities were focused in the areas of trace organic analytical chemistry and physico-chemical properties of organic compounds, where his work is described in more than 85-archival publications.

**Other National and International Responsibilities:**

Dr. May has several leadership responsibilities in addition to those at NIST. He is Vice President of the 18-person International Committee on Weights and Measures (CIPM), President of the CIPM's Consultative Committee on Metrology in Chemistry and Biology; Executive Board Member for the Joint Committee on Traceability in Laboratory Medicine; Board of Visitors for the University of Maryland College Park's College of Computer, Mathematical, and Natural Sciences; External Advisory Boards for the UK National Physical Laboratory and Japan's National Institute of Advanced Industrial Science and Technology.

#### Honors and Awards:

Department of Commerce Bronze Medal Award, 1981; National Bureau of Standards (NBS) Equal Employment Opportunity (EEO) Award, 1982; Department of Commerce Silver Medal Award, 1985; Arthur Flemming Award for Outstanding Federal Service, 1986; NOBCChE Percy Julian Award for Outstanding Research in Organic Analytical Chemistry and Presidential Rank Award of Meritorious Federal Executive, 1992; Department of Commerce Gold Medal, 1992; American Chemical Society Distinguished Service in the Advancement of Analytical Chemistry Award, 2001; Keynote Speaker-Winter Commencement Ceremonies, University of Maryland, College of Life Sciences, 2002; Council for Chemical Research Diversity Award; NOBCChE Henry Hill Award for exemplary work and leadership in the field of chemistry; Science Spectrum Magazine Emerald Award, 2005; Alumnus of the Year Award from the College of Chemical and Life Sciences at the University of Maryland, 2007; Member of first class of inductees into the Knoxville College Alumni Hall of Fame, 2010; Fellow of the American Chemical Society, 2011; Honorary Doctor of Science and Speaker at Graduate School of Arts and Sciences Commencement Exercises, Wake Forest University, 2012.

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**Sherwin  
McAdam**

**Compute and  
Storage Team Lead,  
Cloud Computing  
Program Manager,  
NIST**

Sherwin McAdam is the Compute and Storage Team Lead and the Cloud Computing Program Manager for the Office of Information Systems Management at NIST. As team lead, Sherwin delivers enterprise services including Virtual Infrastructure, Enterprise Backup, Central File Storage, and Hybrid Cloud. He serves as Project Manager and implementation lead for a range of cloud computing solutions including Email as a Service (EaaS), Infrastructure as a Service (IaaS), and Platform as a Service (PaaS). Mr. McAdam provides cloud computing program planning, direction, administration, and oversees all aspect of program performance, contractual, technical, and administrative.

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**John Messina**

**Computer  
Scientist, Cloud  
Computing  
Program Senior  
Member, NIST**

John Messina is a senior member of the Cloud Computing (CC) Project at the National Institute of Standards and Technology (NIST). He holds a M.S. in Computer Science and B.S. in Physics and has been working at NIST as computer scientist since 1998. He has a distinguished record of scientific accomplishments, such as publications and industry presentations, and has received several awards, including NIST's Edward Bennett Rosa Award and the US Department of Commerce's Bronze Medal. Having spent the last few years helping developing data dictionaries and data exchange standards for the US Electronics Industry, he has been co-leading the NIST CC Reference Architecture working group. His particular focus has been on leading efforts to create Cloud Computing Ontologies and various taxonomies.

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**Kevin Mills, PhD**

**Senior Research  
Scientist, NIST**

Dr. Mills and his colleagues are investigating design-time and run-time techniques to detect the potential for, and onset of, failure regimes in complex information systems, such as communication networks and clouds. Dr. Mills received his PhD in 1996 from the George Mason University (GMU). In addition to working for NIST, over the years Dr. Mills has also worked at the Defense Advanced Research Projects Agency (DARPA), where he was program manager (and sheep in wolf's clothing), at GMU, where he was on the adjunct faculty of the computer science department, and in the United States Marines, where he researched automated air traffic control and defense systems.

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**Sujit Mohanty**

**Cloud Chief  
Technologist at HP  
Helion / HP Cloud**

Suj Mohanty is a Cloud Chief Technologist with HP Helion and HP Cloud. He drives the Public Sector go-to-market strategy around OpenStack, Eucalyptus, and other cloud technologies. Prior, Suj he was the Public Sector CTO for HP Software. He provided the strategy and direction for the Public Sector across cloud, IT service management, mobility, security, and big data. Previously, Suj held senior technical roles at BMC Software and IBM Tivoli. He is the author of two IBM Redbooks on SIEM and intrusion detection, and studied Systems Engineering at the University of Virginia.





**Sara Mosley**  
**Chief Enterprise**  
**Architect, US**  
**Department of**  
**Homeland Security**

Dr. Sara Mosley joined DHS in 2012 as Chief of the Network and Infrastructure Security Branch for DHS' Cybersecurity and Communications Organization. In this role, she leads the government-wide effort to establish a common baseline security solution for the federal enterprise; serves as the Program Manager for the Trusted Internet Connections' initiative to reduce federal network touch points to the Internet. Her broad experience includes enterprise level project management, strategic network, cyber security architecture and design, and systems integration. Currently, Sara serves as the Chief Enterprise Architect for the Network Security Deployment Division (NSD) within CS&C, responsible for planning future technical roadmap for NSD programs. She ensures that NSD programs stay synchronized and take a holistic view of changes to the Enterprise in order to determine how NSD must position cyber capabilities and infrastructure.

Prior to her role at DHS, Sara was the Enterprise Network and Security Architect for the Information Resource Management (IRM) organization at the Department of State. There, she led the design of the Foreign Affairs Network (FAN) in support of the USAID and Department of State infrastructure integration for the Information Technology Transformation Initiative (ITTI). Also, she served as the Technical Lead for the evaluation of the Vanguard 2.2.1 task order where she successfully consolidated over 44 separate core infrastructure tasks supporting IRM.

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**Vijaykant**  
**Nadadur**  
**Founder & CEO,**  
**Tationem**

Vijaykant Nadadur (Vijay) is the Founder and CEO of Tationem, a startup focusing Data Science and Text Mining. He has been regularly invited to speak at conferences and workshops such as IEEE Smart Metro Tech Workshop in Data Science, Asian Cloud Council Association, NITK, Surathkal, VIT University, Chennai, ITM University, Gurgaon, MNIT, Jaipur. He is part of the executive committee of Cloud Computing Innovation Council of India and is the Co-Chair of Big Data Analytics Group. As a tech entrepreneur, he has been invited by several B-Schools as a motivational speaker and as a judge of B-Plan competitions. He holds a Master's Degree in Computer Science, from the University of Kentucky, USA.

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**Pearse  
O'Donohue**  
**Head of Unit,  
Software &  
Services, Cloud  
European  
Commission, DG  
CONNECT**

Pearse O'Donohue is the Head of Unit for Software & Services, Cloud in the European Commission (DG CONNECT), where he is responsible for the strategic development and implementation of policy on cloud computing and on software and services.

Until 31 October 2014, Pearse was Deputy Head of Cabinet of Vice-President Neelie Kroes, outgoing European Commissioner for the Digital Agenda. He was responsible for advising the Vice-President on the development and implementation of policy on electronic communications, networks and services, as well as broadband, spectrum and other related policies.

Prior to that, Pearse was Head of the Radio Spectrum Policy Unit in the European Commission, DG CONNECT. He was responsible for the development and implementation of policies for efficient spectrum use and a coordinated approach to frequency management in the EU. This also involved the development of spectrum harmonisation measures in the electronic communications field, including the digital dividend, and in other internal market sectors such as transport and research.

Pearse O'Donohue began his career in the Irish Department of Foreign Affairs, from which he was posted to the Permanent Representation of Ireland to the EU in Brussels. He was later appointed Assistant Director of the Brussels office of the Irish Business & Employers' Confederation, before joining the European Commission. He was a member of the Cabinet of the Commissioner for Social Affairs and Employment before joining DG INFOS (now DG CONNECT) in 1999. There he held several posts, including as Assistant to the Director-General and as Deputy Head of the Unit responsible for monitoring and enforcing implementation of the EU regulatory framework in electronic communications.

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## **Michael Panico**

**Director,  
Information and  
Content Security,  
Warner Bros.  
Entertainment  
Group**

Michael Panico has over 15 years of information security experience. A former FBI Supervisory Special Agent, Michael is credited with breaking up an international ring of botnet operators who used Denial of Service attacks to cause millions of dollars of damage.

After that success, he was summoned to FBI Headquarters to lead a “fly team” of cyber investigators that responded to the most serious cyber intrusions facing the nation. This included two deployments to the Olympic Games in 2004 and 2006, where he led teams that provided cybercrime expertise to the host country security services. During his time as an FBI agent, Michael has had the opportunity to interview a number of hackers and learn their methods and motivations.

After leaving the FBI in 2006, Michael joined Microsoft to serve as Incident Response lead for Microsoft’s Global data center infrastructure services and online web properties. Eventually, he was given responsibility for the entire CERT function for online services.

Michael has served as a consultant to Fortune 500 companies, specializing in data breach investigations and digital forensics. He has responded to some of the most serious computer intrusions over the past few years and has served as a trusted advisor to executive management at when they seek to design secure computing environments.

Currently he is the Director of Security Operations and Incident Response at Warner Bros., where he leads a team that secures WB’s production data center infrastructure. This environment stores, processes and delivers media content to the world.

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## **Karen E. Petraska**

**Service Executive  
for Computing  
Services, NASA**

Karen Petraska is presently serving as the Service Executive for Computing Services in the NASA Office of the Chief Information Officer, leading NASA’s response to the Federal Data Center Consolidation Initiative and spearheading the development and deployment of an enterprise approach to managing cloud computing at NASA. Karen has a Masters Degree in Computer Science and 25 years of experience between academia, industry and government. She has worked in several areas of enterprise IT infrastructure services including messaging, directories, authentication/authorization, networks, data centers and IT security and has a significant interest in the challenges of technology and policy integration in large organizations. Karen previously served as the NASA Service Executive for Authentication and Authorization where she led NASA’s HSPD-12 implementation and delivered several key capabilities to ensure NASA’s compliance. Prior to that, she served as the Chief Information Officer at NASA’s Ames Research Center and before that, as

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the Chief of the Information Services and Technology Division at NASA's Goddard Space Flight Center.

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### **Mark Potter**

**CISSP CISM CISA  
SABSA-SCF CIPP/G  
CIPP/US CIPM CIPT  
CCSK ITIL-F**

**Principal Systems  
Security Officer,  
StrategicHealthSol  
utions**

Mark Potter has worked in IT for over 22 years including 11 years focused on information security, governance, risk management, regulatory compliance and data protection/privacy program design and implementation. He has worked for start-ups and fortune 500 companies in multiple roles including CISO, data warehouse architect and software developer.

Mark currently serves as the Principal Systems Security Officer for StrategicHealthSolutions. His responsibilities include security oversight of the CMS Medicare Secondary Payer Integration Contractor program as well as the security deliverables of the Coordination of Benefits & Recovery Contractors.

Mark volunteers as the Maryland InfraGard Sector Chief program director and as the Sector Chief for the IT sector. He is an active contributor to the SABSA/The Open Group Security Services Catalogue Project. He is also an active member of the NIST Cloud Computing Security Working Group and the NIST Cloud Computing Forensic Science Working Group.

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### **Vinay Purohit**

**Founder and CEO,  
CloudJunxion, Inc.**

Vinay is an engineer, inventor and entrepreneur with over 23 years of experience spanning diverse areas of technology such as Telecommunications, Wireless Networks, Signal Processing, Cloud Computing and IT. His latest venture, CloudJunxion, provides Cloud-based Security solutions that leverage an innovative architecture based on multiple, heterogeneous clouds. Solutions allow enterprises with very high security requirements to leverage the benefits of the cloud while addressing key concerns of security, availability and control. He's the inventor of the VSA (Virtual Spectrum Aggregation) technology that allows use of disjoint blocks of wireless spectrum as though it were one virtually contiguous block. Vinay was the principal architect of the transmission system for Sirius Satellite Radio in the early 2000s. He serves as a consultant to large technology companies and is the principal author of several patents (granted and pending) spanning diverse technical domains. He holds B.Tech and M.S. degrees in Computer Science from the Indian Institute of Technology, Kanpur, and Texas A&M, respectively.

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**Dr. Zulfikar  
Ramzan**  
**Chief Technology  
Officer, RSA**

Dr. Zulfikar Ramzan is the Chief Technology Officer for RSA. In this role, Ramzan is responsible for leading the development of the company's technology strategy and will focus on bringing to market the innovations that help protect RSA customers from the growing number of advanced threats.

Prior to joining RSA, Ramzan served as CTO of Elastica, where he leveraged machine learning technologies and natural language processing to enable customers to more securely access and use cloud services. Before Elastica, Ramzan respectively served as chief scientist of both Sourcefire, acquired by Cisco in 2013, and malware analytics company Immunit, acquired by Sourcefire in 2010. Ramzan previously served as the technical director of Symantec's security technology and response division, where he was the architect for the company's reputation-based malware detection technology.

Ramzan earned his Ph.D. in electrical engineering and computer science from the Massachusetts Institute of Technology.

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**Jim Reavis**  
**Founder, CSA**

For many years, Jim Reavis has worked in the information security industry as an entrepreneur, writer, speaker, technologist and business strategist. Jim's innovative thinking about emerging security trends have been published and presented widely throughout the industry and have influenced many. Jim is helping shape the future of information security and related technology industries as co-founder, CEO and driving force of the Cloud Security Alliance. Jim was recently named as one of the Top 10 cloud computing leaders by SearchCloudComputing.com.

Jim is the President of Reavis Consulting Group, LLC, where he advises security companies, governments, large enterprises and other organizations on the implications of new trends such as Cloud and Mobility and how to take advantage of them.

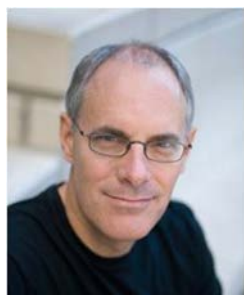
Jim has previously been an international board member of the ISSA, a global not for profit association of information security professionals and formerly served as the association's Executive Director. Jim founded SecurityPortal, the Internet's largest website devoted to information security in 1998, and guided it until a successful exit in 2000.

Jim has been an advisor on the launch of many industry ventures that have achieved a successful M&A exit or IPO. Jim is widely quoted in the press and has worked with hundreds of corporations on their information security strategy and technology roadmap. Jim has a background in networking technologies, marketing, product management and systems integration. Jim received a B.A. in Business Administration / Computer

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Science from Western Washington University in 1987 and formerly served on WWU's alumni board.

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**Jeffrey Ritter**

**External Lecturer,  
University of  
Oxford**

After a successful career in law, Mr. Ritter now develops and teaches live and on-line graduate level courses at the University of Oxford, Department of Computer Science, and Johns Hopkins University Whiting School of Engineering, on information governance, privacy engineering, and information security policy. Mr. Ritter was the founding chair of the ABA Committee on Cyberspace Law, former outside counsel to ISSA and I-4, and the author of *Achieving Digital Trust: The New Rules for Business at the Speed of Light* to be released later in 2015. More information can be found at [www.jeffreyritter.com](http://www.jeffreyritter.com).

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**Ronald (Ron)  
Rice**

**Lead, DISA Risk  
Management  
Executive Office,  
Cyber Security  
Standards Division**

Ronald (Ron) Rice is a government lead in the DISA Risk Management Executive Office, Cyber Security Standards Division and serves as the principal author of the DoD Cloud Computing Security Requirements Guide. In addition to cloud, Mr. Rice is the government lead for the telecommunications related Security Technical Implementation Guides and has served in this capacity for approximately 10 years.

Previously, Mr. Rice led a commercial network infrastructure / security system contracting firm, and served as the Philadelphia operations manager for a national building centric Internet Service Provider. Mr Rice has led contract projects for Digital Equipment Corp., IBM, Unisys, EDS and others, notably at Lockheed Martin, Moorestown NJ; NASA, Johnson Space Center, NM; and the NMCI installation at Charleston Naval Weapons Station.

Mr Rice graduated from Church Farm School, attended Drexel University for several years for electrical engineering, and is now a Certified Information Systems Security Professional (CISSP).

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**Mark Ryland**  
**Chief Architect,**  
**World Wide Public**  
**Sector Team,**  
**Amazon Web**  
**Services (AWS),**  
**AMAZON.COM**

Mark Ryland is the technology leader for Amazon Web Service's Worldwide Public Sector (WWPS) team. Mr. Ryland leads a team of Solutions Architects and Professional Services Engineers who provide AWS technical evangelism, architectural guidance, knowledge transfer, and cloud implementation services to government and education customers around the globe. In addition to building and managing a large technical team, Ryland is an expert in distributed systems, networking, cyber security, and identity and access management. He also serves as a key interface between the WWPS team and the engineering, security, and compliance teams at AWS, ensuring that public sector customer requirements are front-and-center in service team plans and roadmaps.

Ryland has more than 24 years of experience in the technology industry, beginning with Microsoft Federal Systems in the USA, where he began his technical career as a Senior Architectural Engineer in 1991. He continued at Microsoft for ten years, serving in a variety of software engineering and technical marketing roles in the Systems Group. In the late 1990s he started and ran the first standards organization at Microsoft, serving as Director of Standards Strategy until 2000. Subsequently, Ryland served as CTO of two start-up companies, as well as Vice-President and Director of the Washington DC office of a Seattle-based public policy group. He rejoined Microsoft in 2008 as National Standards Officer for the USA, later switching back to an engineering role as a principal program manager in Microsoft's identity and access team, before joining AWS.

Ryland joined the AWS WWPS team as Chief Solutions Architect in September 2011, bringing a rich set of software engineering, distributed systems, cyber security, technical evangelism, public policy, and management skills to the WWPS team.

Additional information on Mark Ryland is available at <http://linkedin.com/in/markryland>.

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## **A. Michael Salim**

**CTO,  
LocalWeb.com /  
ADTI (American  
Data Technology,  
Inc.)**

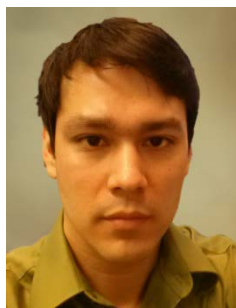
Mike Salim is the Chief Technology Officer at LocalWeb.com / ADTI (American Data Technology, Inc.), a Cloud and Managed Web Hosting provider located in North Carolina, USA. LocalWeb.com / ADTI has been providing hosting services to U.S. Government agencies as well as to commercial enterprises nationwide and worldwide for 19+ years. With his experience with the company, Mike Salim brings an in-depth, hands-on Cloud Service Provider's perspective to Cloud Computing for your organization.

Mike Salim has a Bachelor's in Electrical Engineering from Imperial College, University of London, and a Master's in Computer Science from Rensselaer Polytechnic Institute. Mike Salim also holds CISSP, PMP, PE, and Eurlng certifications. Prior to joining ADTI, Mike Salim worked at IBM where he was involved with the early days of the NSFNet and Internet in the late eighties and early nineties, upgrading the NSFNet backbone into what was to become today's Internet.

Mike Salim has been an active contributor to the efforts of the NIST Cloud Computing Security Working Group which authored NIST SP 500-299 ("NIST Cloud Computing Security Reference Architecture"), and the NIST Cloud Computing Forensics Working group, which will be publishing a NIST Interagency Report, "NISTIR 8006 - Cloud Forensics Challenges" on the topic of Cloud Forensics Challenges very soon.

Mike Salim lives with his wife and daughter in North Carolina, USA.

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## **Rodrigo Sardinas**

**Graduate Research  
Assistant, Auburn  
Cyber Research  
Center**

Rodrigo Sardiñas is working as a graduate research assistant in the Auburn Cyber Research Center under Dr. Anthony Skjellum and is also a Ph.D. student at Auburn University. His research interests are in information security. He has previously researched polymorphic malware detection, and is currently researching cloud computing security, with an emphasis on IaaS cloud computing architectures, forensics, and best practices. Before joining Auburn University, he received his B.S. and M.S. in Computer Science at Columbus State University, TSYS School of Computer Science and taught Information Technology part time at Chattahoochee Valley Community College.

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**Danny Schilo**

**Senior Manager,  
Deloitte Advisory**

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Danny Schilo is a Senior Manager with Deloitte Advisory based out of New York. He specializes in computer forensics for complex litigation and regulatory compliance. His background in both law and computer science helped him assist clients in numerous disputes, including leading the forensic data recovery and analysis efforts for one of the largest bankruptcies in the financial industry. Danny has extensive experience in cloud forensics and security, using data mining, machine learning and advanced analytics provide forensic solutions in matters that involve petabytes of data.



**Tony Scott**

**CIO US  
Government, OMB  
(Office of  
Management and  
Budget ) |Federal  
Chief Information  
Officer**

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Tony Scott, the current Federal Chief Information Officer, joined OMB in February 2015, and brings more than 35 years of leadership and management experience in IT services. Prior to OMB, Mr. Scott served as VMWare's Senior Vice President and Chief Information Officer, where he focused on the effective use of IT to bring improved agility and cost savings to the business. Before VMWare, Mr. Scott was Microsoft's Chief Information Officer, where he oversaw all aspects of the company's information technology organization and enterprise digital supply chain.

Previous to Microsoft, Mr. Scott served as CIO at the Walt Disney Company, Mr. Scott also served as the Chief Technology Officer of Information Systems & Services at General Motors Corporation.

He holds a bachelor's degree in information systems management from the University of San Francisco and a Juris Doctorate with a concentration in Intellectual Property, International Law from Santa Clara University.



## **Alan Sill**

**Senior Scientist,  
High Performance  
Computing Center  
and Adjunct  
Professor of  
Physics at Texas  
Tech University  
(TTU)**

Alan Sill directs the US National Science Foundation Center for Cloud and Autonomic Computing site at Texas Tech University, where he is also Senior Scientist at the High Performance Computing Center and Adjunct Professor of Physics, and serves as President of the Open Grid Forum. Sill holds a PhD in particle physics from American University. He has an extensive publication record in particle physics, nuclear physics, cosmic ray astrophysics and scientific computing topics. He participated in the experiments that discovered the top quark and of the Higgs boson at Fermilab and CERN, and helped to develop the scientific computing infrastructures that supported this work and later extended support to many other fields of science. He is currently an active member of the CMS and RD-52 experiments at CERN and of the IEEE, the Distributed Management Task Force, TeleManagement Forum, Open Grid Forum and other cloud standards working groups, and serves on several national and international standards roadmap committees. He currently co-chairs the US National Institute of Standards and Technology's "Standards Acceleration to Jumpstart Adoption of Cloud Computing" working group and also co-organizes the ongoing developer-oriented Cloud Interoperability Plugfest series in partnership with several major standards organizations and software projects. For further details, visit <http://nscac.org> or contact him at [alan.sill@ttu.edu](mailto:alan.sill@ttu.edu).



## **Eric Simmon**

**NIST Cloud  
Computing Senior  
Member,  
Systems Expert,  
Electronic  
Information  
Group, NIST**

Eric Simmon is a systems expert in the Electronic Information Group (EIG) at the National Institute of Standards of Technology. He graduated magna cum laude from Worcester, Polytechnic Institute (Worcester, MA) with an electrical engineering degree in 1989. That same year he joined the National Institute of Standards and Technology to work on precision measurements for high voltage and high current. In 2003 he joined the EIG working on using systems modeling to improve the standards development process.

He is presently leading the NIST cloud computing SLA effort and is project editor for the ISO/IEC 19086-2 "Service Level Agreement (SLA) framework and terminology - Metrics" draft standard. In addition to cloud computing Mr. Simmon is leading the NIST effort in cyber-physical cloud computing and is co-chair for the NIST cyber-physical systems use case sub-group.



**Annie Sokol**

**NIST Cloud  
Computing Senior  
Member,  
Designated  
Federal Officer,  
Computer Security  
Division, NIST**

Ms. Annie Sokol is an IT Specialist in the Information Technology Laboratory's Computer Security Division at the National Institute of Standards and Technology (NIST). As a member of NIST Cloud Computing Program, she co-chaired NIST Cloud Computing Interoperability and Portability Working Group and NIST Cloud Computing Standards Roadmap Working Group. Currently, she is one of the editors of ISO/IEC AWI 19941 Information Technology – Cloud Computing – Interoperability and Portability. Annie Sokol's involvement in standards development includes Co-Convener for ITU-T and ISO/IEC Collaborative Team for and eventual publication of ISO/IEC 17788 Cloud Computing Vocabulary and Overview. Previously, Annie served as the International Representative and Vice Chair of INCITS B10.12, Integrated Circuit Cards with Contacts.

Annie Sokol is also the Designated Federal Officer for the Information Security and Privacy Advisory Board (ISPAB). The ISPAB advises the Secretary of Commerce and the Director of the Office of Management and Budget on emerging information security and privacy issues pertaining to Federal Government information systems.

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**Dr. Ram D.  
Sriram**

**Chief, Software and  
Systems Division,  
NIST**

Ram D. Sriram is currently the chief of the Software and Systems Division, Information Technology Laboratory, at the National Institute of Standards and Technology. Before joining the Software and Systems Division, Sriram was the leader of the Design and Process group in the Manufacturing Systems Integration Division, Manufacturing Engineering Laboratory, where he conducted research on standards for interoperability of computer-aided design systems. Prior to joining NIST, he was on the engineering faculty (1986-1994) at the Massachusetts Institute of Technology (MIT) and was instrumental in setting up the Intelligent Engineering Systems Laboratory. Sriram has extensive experience in developing knowledge-based expert systems, natural language interfaces, object-oriented software development, life-cycle product and process models, geometrical modelers, object-oriented databases for industrial applications, health care informatics, bioinformatics, and bioimaging. He has consulted for several leading corporations all over the world during his tenure at MIT. Sriram has co-authored or authored more than 250 publications, including several books. Sriram was a founding co-editor of the International Journal for AI in Engineering. Sriram received several awards including: an NSF's Presidential Young Investigator Award (1989); ASME Design Automation Award (2011); ASME CIE Distinguished Service Award (2014), and the Washington Academy of Sciences' Distinguished Career Engineering Sciences Award (2015). Sriram is a Fellow of ASME, AAAS and Washington Academy of Sciences, a member (life) of ACM, a Senior Member of the IEEE, and a

member (life) of AAAI. Sriram has a B.Tech. from IIT, Madras, India, and an M.S. and a Ph.D. from Carnegie Mellon University, Pittsburgh, USA.

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**James St. Pierre**  
**Deputy Director,**  
**Information**  
**Technology**  
**Laboratory (ITL),**  
**NIST**

James A. St. Pierre is Deputy Director of the Information Technology Laboratory (ITL). ITL is one of seven research Laboratories within the National Institute of Standards and Technology (NIST).

Along with the ITL Director St. Pierre oversees a research program designed to promote U.S. innovation and industrial competitiveness by developing and disseminating standards, measurements, and testing for interoperability, security, usability, and reliability of information systems, including cybersecurity standards and guidelines for Federal agencies and U.S. industry, supporting these and measurement science at NIST through fundamental and applied research in computer science, mathematics, and statistics. Through its efforts, ITL seeks to enhance productivity and public safety, facilitate trade, and improve the quality of life.

Under the Federal Information Security Management Act, ITL is addressing major challenges faced by the nation in wide range of areas including: cloud computing, big data, cyber-physical systems, electronic voting, and health information technology. Mr. St.Pierre coordinates ITL's involvement in the NIST Cyber-Physical Systems program – ITL's contributions to this effort are focused on cybersecurity, networking, and timing.

His work has been published in the NIST Journal of Research and in external publications. He has given dozens of presentations on both technical and management topics, to both national and international audiences. Before joining NIST, in 1994, he worked as a technical project leader within Loral Space Systems semiconductor design group and worked for IBM on the development of hardware and software for Los Angeles-class submarines. In addition, he worked with several universities to develop their semiconductor design curricula.

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## **Allison Stanton**

**Director of E-Discovery, FOIA and Records, U.S. Department of Justice's Civil Division**

Ms. Allison Stanton is the Director of E-Discovery, FOIA, and Records for the United States Department of Justice's Civil Division. She reports directly to the head of the Civil Division and is frequently called upon by senior Department of Justice leadership and others throughout the federal government for legal guidance and counsel on complex information management and e-discovery issues involving technology and law. Among the recognition received for her work, in 2014 Ms. Stanton received the Attorney General's Distinguished Service Award, one of the Department's highest awards, for her work in the investigation that led to the multi-billion dollar settlement with JP Morgan for mortgage fraud.

As part of her responsibilities, Ms. Stanton advises on complex e-discovery issues in civil litigation and investigations; develops e-discovery policies, practices, and training for the Civil Division; works with the other Department of Justice Divisions on e-discovery initiatives; advises federal agencies on e-discovery and information management matters; and provides guidance on proposed changes to procedural rules, regulations, and legislation affecting e-discovery.

Ms. Stanton's Division is the largest litigating component of the Department of Justice and litigates over 50,000 cases a year. The Civil Division represents the United States, all federal agencies (such as DOD, HHS, NASA, etc.), Members of Congress, Cabinet Officers, and other federal employees. The Civil Division's legal practice includes both defensive and affirmative litigation. Each year, thousands of lawsuits against the government are filed as a result of its policies, laws, domestic and foreign operations, and entitlement programs, as well as law enforcement initiatives, military actions, and counterterrorism efforts. The Civil Division defeats unmeritorious claims every year that would have cost billions of dollars. In its affirmative litigation, the Division brings suits on behalf of the United States, primarily to recoup money lost through fraud, loan defaults, and the abuse of federal funds. Annually, billions of dollars are returned to the treasury, Medicare, and other programs as a result of the Civil Division's litigation efforts. As a result of the complexity and the large volumes of data and evidence needed in these cases, the Civil Division's technology needs are diverse and drive the need for innovation in the development of e-discovery law and technology.

Ms. Stanton also leads the Civil Division's office responsible for meeting the Division's FOIA and records obligations. This information management is a key function that aids the Civil Division in achieving its litigation mission. One of Ms. Stanton priorities is the continued modernization of government FOIA and records processes by



transforming paper-based systems to an advanced electronic workflow. She works closely with senior Department of Justice leadership and others around the federal government to develop and support innovative and efficient approaches to FOIA, records, and e-discovery.

Ms. Stanton is an established author with more than 20 articles in various legal and technology publications. She has spoken at numerous national and international conferences. She teaches E-Discovery at American University's Washington College of Law and is the Former-Chair of the D.C. Bar E-Discovery Committee. Ms. Stanton received her law degree from the Washington College of Law, American University, summa cum laude, and received her undergraduate degree from Cornell University with honors. Ms. Stanton clerked in the United States District Court for the Eastern District of Virginia for the Honorable Barry R. Poretz.

Prior to joining the Department of Justice, Ms. Stanton was an attorney with Hogan Lovells US LLP where she represented numerous clients in complex civil cases and criminal investigations, many of which included complex e-discovery issues. Ms. Stanton also developed proactive e-discovery plans for Fortune 500 companies, including document retention policies and litigation hold and response procedures.

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**Ken E.  
Stavinoha**

**Technical Leader,  
Cisco Systems**

Ken Stavinoha serves as a Technical Leader at Cisco Systems, leading FedRAMP and FISMA authorization strategy and collaborating with Cisco business units, public sector teams, sales, partners, and customers. Cisco's Security and Trust Organization is responsible for designing, implementing, testing, and certification on Cisco products as required by global governments and enterprises worldwide. Dr. Stavinoha collaborates with the NIST cloud computing security and cloud forensics science working groups on the Cloud-adapted Risk Management Framework (CRMF) and the identification and preservation of evidence in cloud architectures.

As a former IT auditor performing both regulatory and non-regulatory audits, Dr. Stavinoha has experience in gap analysis, controls evaluation, controls testing, and remediation. He has authored or co-authored five assessment tools, including the Application Privacy Assessment - which is a free download on Microsoft's Trustworthy Computing website. Dr. Stavinoha has a Ph.D. in Information Assurance Policy from the University of Fairfax and has the CISSP-ISSAP-ISSMP, CIPP, CRISC, and NSA 4011/4012 certifications.

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**Patrick T.  
Stingley**

**Chief Technical  
Officer, Bureau of  
Land Management**

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Patrick Stingley is one of the original authors of the term Cloud Computing and former CTO for the Federal Cloud. Participants from NIST may remember him from his work with Drs Peter Mell and Tim Grance to define Cloud Computing and the services associated with it. Since then, Mr. Stingley has been managing the Data Center Consolidation effort for the Bureau of Land Management, consolidating over 75% of the Bureau's data centers. His combined knowledge of Cloud Computing and research allowed him to devise a strategy for consolidating the remainder of his organization's data centers through innovations in Information Resource Management, including such technologies as cloud computing.



**Dr. Said Tabet**

**Senior  
Technologist, CTO  
Office, EMC  
Corporation**

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Dr. Said Tabet is leading the Governance Risk and Compliance (GRC) Strategy within the Office of the CTO at EMC Corporation. He is also serving as the chair of OCEG Technology standards. Prior to joining EMC, Said was a principal consultant in Business Rules, Business Process Automation and GRC. Said leads and participates in standards initiatives within ISO, OMG, W3C, OASIS, CSA, IETF. He is the co-founder of RuleML, co-chair of CSA SME Council and actively involved in LegalRuleML, Cloud Computing, Cyber Security, Business Rules and Modeling, financial services and healthcare standards. Said is a regular speaker at industry and academic conferences, author and organizer of International workshops.



**Jim Tobias**  
**President,**  
**Inclusive**  
**Technologies**

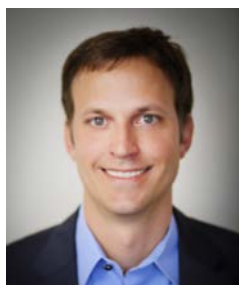
Jim Tobias has more than thirty-five years experience in accessible and usable technology in both public and private sectors. He has focused on how technologies are designed and used in education, employment, communication, transportation, commerce, and civic participation, for seniors and people with disabilities.

With a Master's Degree in Industrial Design, he began his career at Berkeley's Center for Independent Living, then led initiatives at Bell Labs and Bellcore on enhanced usability and accessibility. Inclusive Technologies is his technology analysis consulting firm specializing in accessible information and communication technologies. Clients have included AOL, the California Secretary of State's Office, the California State University system, Cisco Systems, HP, IBM, Microsoft, National Science Foundation, Panasonic, Qualcomm, and Verizon. He works on the Global Public Inclusive Infrastructure project in several capacities, and leads the communications team for Raising the Floor, an international consortium on advanced usability. He is the Technical Director of the US Department of Labor's Partnership on Employment and Accessible Technology

He has served on several advisory committees, including co-Chairing the Access Board's committee on updating accessibility requirements in Sections 255 and 508. Jim co-directed the accessibility element of California's review of voting technologies in 2007-2008, and led the user testing component.

His favorite projects have been: an innovative telecommunications relay service with integrated speech technologies, a network-based talking productivity toolkit, and "AT Boogie", an award-winning music video about assistive technology.

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**Greg Virgin**  
**President & CEO,**  
**RedJack**

Greg Virgin is the founder and Chief Executive Officer of RedJack, a security company specializing in custom solutions for complex data analysis, network security and software development. He launched the company after working with the National Security Agency, which tasked him to help the government ward off cyberattacks. Rather than rely on available network security technologies, Virgin invented, coded and patented the Analytic Metadata Producer (AMP)/Trickler, a novel network analysis tool that has been deployed at several government agencies and in the computer security industry. Greg is also an Investigative Associate with the International Justice Mission, helping bring cyber analysis technology to bear in the fight against human trafficking and child exploitation.

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**Igor Volovich,  
CISSP, CRISC,  
CISM, CISA, CIPP**

**Managing  
Director and  
Chief Security  
Strategy Office,  
Cyber Strategy  
Partners**

Igor Volovich presently leads Cyber Strategy Partners, a Washington, DC-area advisory practice focusing on national infrastructure protection, energy security, national cyber defense, critical manufacturing, and emerging segments such as Smart Cities, the Internet-of-Things (IoT), and Smart Grid. In his role as the firm's Managing Director and Chief Security Strategy Officer (CSSO), Mr. Volovich advises public firms, global multinationals, and public sector clients on cyber governance, infrastructure protection, information assurance, incident response, M&A and supply chain cyber due diligence, internal investigations, and holistic strategies for the defense of intellectual property assets. Mr. Volovich collaborates with leading technology and service providers to create and deliver comprehensive, scalable, and efficient cyber security solutions.

In his role as Fellow at the Institute for Critical Infrastructure Technology (ICIT), a Washington non-profit public policy think tank, Mr. Volovich is actively engaged in advising members of Congress, congressional committees and caucuses, senior staff, and federal agency leadership on matters of technology and cyber policy. The mission of ICIT is to develop and deliver non-partisan public policy analysis and strategy advice through proactive engagement with the legislative community and regulatory bodies on cybersecurity threats and risks affecting emerging technology sectors.

Mr. Volovich has served as Vice President, Global Information Security (CSO) of Schneider Electric Americas, a \$28B, 185,000-staff industrial automation and energy management public multinational, leading the firm's infosec functions in the Americas. Prior to joining Schneider through a merger, Mr. Volovich served as the Chief Information Security Officer (CISO) and Vice President of Information Security and Cyber Risk Management of Invensys plc, a global \$5B market leader in the fields of industrial process control, automation, safety systems, and industrial software (SCADA).

Previously, Mr. Volovich spent 7 years in private practice as the Managing Director of iFF Group, advising senior leadership of Fortune 500 enterprises and public sector clients on regulatory compliance, governance, security strategy, risk management, incident response, internal investigations, and cyber crisis management.

Prior to entering private practice, Mr. Volovich served as a senior and founding member of the Corporate Incident Response and Intrusion Detection Team of Microsoft's Trustworthy Computing (TwC) organization, where he was responsible for the architecture and management of security controls deployed in protection of Microsoft's

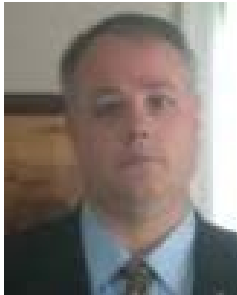
global information assets, as well as internal investigations and incident response functions.

Mr. Volovich has worked with numerous public, private, and public sector organizations, including Schneider Electric, Invensys, Microsoft, MSN, IBM, AT&T Wireless, Freddie Mac, FINRA, Estée Lauder, US Department of Defense, US Department of Labor, British Telecom, Pep Boys, Toyota Financial, Aviva, as well as a number of technology startups such as TeraBeam Networks, eCharge, and LivingSocial.

Mr. Volovich holds the Certified Information Systems Security Professional (CISSP) designation from ISC<sup>2</sup>, Certified in Risk Controls (CRISC), Certified Information Security Manager (CISM), and Certified Information Systems Auditor (CISA) designations from the Information systems Audit and Control Association (ISACA), as well as the Certified Information Privacy Professional (CIPP) certification from the International Association of Privacy Professionals (IAPP).

Mr. Volovich is a member of ISC<sup>2</sup>, ISACA, InfraGard, US DHS ICS-CERT, Alliance for Gray Market and Counterfeit Abatement (AGMA Global), and the Airborne Law Enforcement Association (ALEA)

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**Dr. Merrick S.  
Watchorn**

**DMIST Cloud  
Security SME**

Dr. Watchorn provides Cloud computing services, architectures, vendor selections, trade studies, and team training. He is developing enhanced research capabilities to solve Hadoop based problems coupled with Open Source technologies. Merrick is a high energy, fiscally conscious and goal-driven technology cloud subject matter expert. Merrick approaches life and business challenges with an intrinsic flair for innovation, creativity, critical problem solving, and a strong desire to enhance and protect the bottom line of his clients. He possesses solid expertise in the full spectrum of Program Management, System Development Life Cycle, and Integration and Implementation standards on various classified project.

He has proven executive leadership skills, developed over the course of twenty-four years of work experience, with the ability to develop, motivate, and lead complex teams to provide the desired outcome of his clients. He has expansive computer and systems experience; including business systems development, complex networking, database management, and advance programming requirements in classified and unclassified programs. He is an experienced team leader, supervisor, and resource manager; with extensive inter-agency experience, while acting as a senior military liaison for all branches of the Department of Defense; including Senior North Atlantic Treaty Organization personnel.

Merrick has worked in and around the Washington, DC metropolitan area

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for the last seven years and provided support for numerous government agencies in different roles. He is a former U.S. Military Service member with over eighteen years of classified and unclassified work in and around the Department of Defense, Department of Commerce, Intelligence Community, and Pentagon Force Protection. He has broad experience as a government certified Automation Data Protection Officer (ADPO), Information Security Systems Officer (ISSO), and Information Security Systems Manager (ISSM), and acted as a directorate level Security Officer for the Department of Defense. He has worked inside classified programs for the intelligence community for over several years and has worked for intelligence agencies in leadership positions. He has aggressively conducted training and developed knowledge of U.S. Government policies and regulations in all areas of security adherence. He has provided direct support into security investigations for security violations inside various government agencies.

Merrick enlisted in the United States Navy and service honorable until June 2007. As a member of the Submarine Force, he served at various duty stations with different roles and responsibilities. His final duty station was Chief of Naval Operations (CNO), Joint Action Control Office (JACO) and provided direct support to various Flag Officers within the Pentagon. Today, Merrick resides with his spouse Michelle and two children in Northern Virginia. He is an active member of the Wounded Warrior Project, NIST Cloud Security Ontology and Taxonomy Group, NIST Cloud Computing Security WG, NIST Cloud Computing Standards Roadmap, Open Source Software Institute (OSSI), Cloud Security Alliance (CSA), and provides mentorship sessions with University Students around the world for the University of Phoenix. Additionally, Merrick provides volunteer services as an American Swim Coach and is a former Head Swim Coach for Joe Flaherty's Dolphins.

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## **Hakim Weatherspoon**

**Associate Professor,  
Department of  
Computer Science,  
Cornell University**

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Hakim Weatherspoon is an Associate Professor in the Department of Computer Science at Cornell University. His research interests cover various aspects of fault-tolerance, reliability, security, and performance of large Internet-scale systems such as cloud computing and distributed systems. Professor Weatherspoon is an Alfred P. Sloan Fellow. Also, he is the recipient of the NSF CAREER, DARPA Computer Science Study Panel, IBM Faculty Award, the NetApp Faculty Fellowship, and the Future Internet Architecture award from the National Science Foundation (NSF). He received his Ph.D. from the University of California, Berkeley, in the area of secure and fault-tolerant distributed wide-area storage systems (e.g. Antiquity, OceanStore, etc.) and received his B.S. in Computer Engineering from the University of Washington.



## **Matt Wilkinson**

**Chief, Platform  
Service Division,  
NIST**

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Over thirty years ago Matt began his career as a software developer with the Bureau of Economic Analysis. Since then Matt has been lucky enough to place himself on the edge of innovation both inside and outside of the government. Early initial successes included enabling the migration off old mainframe systems through the implementation of local area network technology. Since coming to NIST, major projects have included leading NIST's adoption of a centralized directory and authentication infrastructure based on Microsoft Active Directory; design and implementation of server virtualization infrastructure; and migrating NIST's messaging and calendar systems to a government-specific cloud offering. In his current role as chief of the platform services division, Matt provides leadership that is focused on enhancing access, assertion, communication, and collaboration activities at NIST.



**Steven  
Woodward**  
**CEO, Cloud  
Perspectives**

He is a member of the National Institute of Standards for Technology (NIST) cloud computing working groups (under the US Department of Commerce), and a leader of the Cloud Audit and Cloud Carrier sub-groups, while contributing to Standards, Reference Architecture, SLAs, Security, Broker and Services topic areas.

As a Cloud Security Alliance Canadian Chapter Director, he fosters collaboration and cooperation to clarify realistic cloud controls that build trust.

His other contributions and leadership roles include ITU-T (United Nations), IEEE, TM Forum, Object Management Group (OMG), Canadian Cloud Council, International Institute of Business Analysts (IIBA) and ISO/IEC 20926 (IFPUG).

Steven is also serving as a Canadian Advanced Technology Alliance (CATA) lead on the Shared Services Canada (SSC) Architecture Framework Advisory Committee.

Steven's consulting, education and advisory services related to cloud computing and advanced ICT solutions include all levels of government within Canada and internationally.

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